BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
30	32.9		Cum	1	2.90	1.10	0.15	0.48	
		Right Side							
0	30		Cum	1	30.00	1.10	0.15	4.95	
30	44.5		Cum	1	14.50	1.10	0.15	2.39	
		Lakshmikantamma house Road (Main Road to Swd Drain)							
		Left Side							
0	29.4		Cum	1	29.40	1.10	0.15	4.85	
30	60	(29.4 to 30 Culvert Went)	Cum	1	30.00	1.10	0.15	4.95	
60	68.6		Cum	1	8.60	1.10	0.15	1.42	
		Right side							
0	19.2		Cum	1	19.20	1.10	0.15	3.17	
		Cross Raod (Gundu Muneshwara house)							
		Left Side							
0	27.5		Cum	1	27.50	1.10	0.15	4.54	
		Right side							
0	28		Cum	1	28.00	1.10	0.15	4.62	
		Cross Road							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	45		Cum	1	15.00	0.90	0.15	2.03	
45	60		Cum	1	15.00	0.90	0.15	2.03	
60	75		Cum	1	15.00	0.90	0.15	2.03	
		New Culvert							
		Main Road Maruthi Hospital Road							
			Cum	1	6.10	1.50	0.15	1.37	

CIVIL Pro Sig. Date BANGALORE

Contactor PMC Assistant Engineer 19-11-19 Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Sarswathi Nilaya Road							
			Cum	1	6.10	1.50	0.15	1.37	
		For Road							
		Paralell to Swd Drain							
0	24.2		Cum	1	24.20	5.03	0.15	18.26	
0	17.5		Cum	1	17.50	6.20	0.15	16.28	
17.5	19.5		Cum	1	2.00	6.80	0.15	2.04	
		Sarswathi Nilaya Road							
0	16		Cum	1	16.00	4.70	0.15	11.28	
0	30		Cum	1	30.00	5.93	0.15	26.66	
30	35		Cum	1	5.00	5.85	0.15	4.39	
		Lakshmikantamma house Road (Main Road to Swd Drain)							
0	19.4		Cum	1	19.40	5.00	0.15	14.55	
0	18.55		Cum	1	18.55	5.80	0.15	16.14	
		Cross Raod (Gundu Muneshwara house)							
0	28		Cum	1	28.00	4.15	0.15	17.43	
		Cross Road							
0	15		Cum	1	15.00	5.20	0.150	11.70	
15	30		Cum	1	15.00	4.95	0.150	11.14	
30	45		Cum	1	15.00	4.20	0.150	9.45	

CIVIL Pro Sig Date BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
45	60		Cum	1	15.00	3.90	0.150	8.78	
60	75		Cum	1	15.00	4.15	0.150	9.34	
75	81.8		Cum	1	6.80	4.20	0.150	4.28	
		Culvert Ramp							
			Cum	2	6.10	1.25	0.150	2.29	
		For Kerb							
		Main Road Maruthi Hospital Road							
		LHS							
			Cum	1	10.40	0.20	0.10	0.21	
			Cum	1	30.00	0.20	0.10	0.60	
			Cum	1	27.00	0.20	0.10	0.54	
			Cum	1	30.00	0.20	0.10	0.60	
			Cum	1	6.70	0.20	0.10	0.13	
		RHS							
			Cum	1	30.00	0.20	0.10	0.60	
			Cum	1	2.60	0.20	0.10	0.05	
			Cum	1	25.90	0.20	0.10	0.52	
			Cum	1	24.50	0.20	0.10	0.49	
			Cum	1	9.50	0.20	0.10	0.19	
		Cross Road							
0	15		Sqm	1	15.00	0.20	0.10	0.30	
15	30		Sqm	1	15.00	0.20	0.10	0.30	
30	45		Sqm	1	15.00	0.20	0.10	0.30	
45	60		Sqm	1	15.00	0.20	0.10	0.30	
60	75		Sqm	1	15.00	0.20	0.10	0.30	
75	90		Sqm	1	15.00	0.20	0.10	0.30	
90	105		Sqm	1	15.00	0.20	0.10	0.30	
105	120		Sqm	1	15.00	0.20	0.10	0.30	
120	135		Sqm	1	15.00	0.20	0.10	0.30	
135	150		Sqm	1	15.00	0.20	0.10	0.30	
150	165		Sqm	1	15.00	0.20	0.10	0.30	
165	180		Sqm	1	15.00	0.20	0.10	0.30	

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CIVIL Pro Sig Date BANGALORE

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
180	195		Sqm	1	15.00	0.20	0.10	0.30	
195	210		Sqm	1	15.00	0.20	0.10	0.30	
210	225		Sqm	1	15.00	0.20	0.10	0.30	
		Cross Road							
0	15		Sqm	1	15.00	0.20	0.10	0.30	
15	30		Sqm	1	15.00	0.20	0.10	0.30	
30	45		Sqm	1	15.00	0.20	0.10	0.30	
45	60		Sqm	1	15.00	0.20	0.10	0.30	
60	75		Sqm	1	15.00	0.20	0.10	0.30	
75	90		Sqm	1	15.00	0.20	0.10	0.30	
90	105		Sqm	1	15.00	0.20	0.10	0.30	
105	120		Sqm	1	15.00	0.20	0.10	0.30	
120	135		Sqm	1	15.00	0.20	0.10	0.30	
135	150		Sqm	1	15.00	0.20	0.10	0.30	
150	165		Sqm	1	15.00	0.20	0.10	0.30	
165	180		Sqm	1	15.00	0.20	0.10	0.30	
180	195		Sqm	1	15.00	0.20	0.10	0.30	
195	210		Sqm	1	15.00	0.20	0.10	0.30	
210	225		Sqm	1	15.00	0.20	0.10	0.30	
225	240		Sqm	1	15.00	0.20	0.10	0.30	
240	255		Sqm	1	15.00	0.20	0.10	0.30	
255	270		Sqm	1	15.00	0.20	0.10	0.30	
270	285		Sqm	1	15.00	0.20	0.10	0.30	
285	300		Sqm	1	15.00	0.20	0.10	0.30	
300	315		Sqm	1	15.00	0.20	0.10	0.30	
315	330		Sqm	1	15.00	0.20	0.10	0.30	
		Cross Road							
0	15		Sqm	1	15.00	0.20	0.10	0.30	
15	30		Sqm	1	15.00	0.20	0.10	0.30	
30	45		Sqm	1	15.00	0.20	0.10	0.30	
45	60		Sqm	1	15.00	0.20	0.10	0.30	
60	75		Sqm	1	15.00	0.20	0.10	0.30	
75	90		Sqm	1	15.00	0.20	0.10	0.30	
90	105		Sqm	1	15.00	0.20	0.10	0.30	

CIVIL Pro Sig Date BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
105	120		Sqm	1	15.00	0.20	0.10	0.30	
120	135		Sqm	1	15.00	0.20	0.10	0.30	
135	150		Sqm	1	15.00	0.20	0.10	0.30	
150	165		Sqm	1	15.00	0.20	0.10	0.30	
		Cross Road							
0	15		Sqm	1	15.00	0.20	0.10	0.30	
15	30		Sqm	1	15.00	0.20	0.10	0.30	
30	45		Sqm	1	15.00	0.20	0.10	0.30	
45	60		Sqm	1	15.00	0.20	0.10	0.30	
60	69.3		Sqm	1	9.30	0.20	0.10	0.19	
							Total	295.67	

CIVIL Pro Sig Date BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item No 5		Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and the directions of Engineer in-charge							
Measurements Taken On :									
		for Drain 70 kg	Tonne		From calculation sheet			12.97	
		for Culvert 100kg	Tonne		From calculation sheet			0.32	
							TOTAL	**13.29**	

CIVIL Pro Sig Octa BANGALORE

Contactor PMC Assistant Engineer 13-12-19 Assistant Executive Engineer

PRE MEASUREMENT SHEET
FIRST AND FINAL BILL
STEEL CALCULATION

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
	Item no.05	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and the directions of Engineer in-charge							
	Measurements Taken On								
	Main Road Maruthi Hospital Road(Swd Drain to dead end)								
	LHS								
	Main Bars (#12@100 c/c)	1	12	1052	1052	2.50	2630.00	0.887814	2334.95
	Distribution(9-#8)	1	10	11	11	104.60	1150.60	0.616538	709.39
	RHS								
	Main Bars (#12@100 c/c)	1	12	1179	1179	2.60	3065.40	0.887814	2721.51
	Distribution(9-#8)	1	10	11	11	117.10	1288.10	0.616538	794.16
	Kondappa layout								
	Paralell to Swd Drain								
	Main Bars (#12@100 c/c)	1	12	384	384	2.70	1036.80	0.887814	920.49
	Distribution(9-#8)	1	10	11	11	37.50	412.50	0.616538	254.32
	Sarswathi Nilaya Road								
	Left Side								
	Main Bars (#12@100 c/c)	1	12	330	330	2.60	858.00	0.887814	761.74
	Distribution(9-#8)	1	10	11	11	32.90	361.90	0.616538	223.12
	Right Side								
	Main Bars (#12@100 c/c)	1	12	446	446	2.60	1159.60	0.887814	1029.51
	Distribution(9-#8)	1	10	11	11	44.50	489.50	0.616538	301.80
	Lakshmikantamma house Road (Main Road to Swd Drain)								
	Left Side								
	Main Bars (#12@100 c/c)	1	12	681	681	2.66	1811.46	0.887814	1608.24
	Distribution(9-#8)	1	10	11	11	68.00	748.00	0.616538	461.17
	RHS								

Contractor

CIVIL Pro Sig Date PMC BANGALORE

12-12-19
Assistant Engineer

12-12-19
Assistant Executive Engineer

	Main Bars (#12@100 c/c)	1	12	193	193	2.35	453.55	0.887814	402.67
	Distribution(9-#8)	1	10	11	11	19.20	211.20	0.616538	130.21
	Cross Raod (Gundu Muneshwara house)								
	Left Side								
	Main Bars (#12@100 c/c)	1	12	276	276	2.60	717.60	0.887814	637.10
	Distribution(9-#8)	1	10	11	11	27.50	302.50	0.616538	186.50
	RHS								
	Main Bars (#12@100 c/c)	1	12	281	281	2.70	758.70	0.887814	673.58
	Distribution(9-#8)	1	10	11	11	28.00	308.00	0.616538	189.89
	Munithimmayya layout								
	Left Side								
	Main Bars (#12@100 c/c)	2	12	2338	4676	0.15	701.40	0.887814	622.71
	Distribution(9-#8)	2	8	2	4	233.70	934.80	0.394584	368.86
	RHS								
	Main Bars (#12@100 c/c)	2	12	1617	3234	0.15	485.10	0.887814	430.68
	Distribution(9-#8)	2	8	2	4	161.60	646.40	0.394584	255.06
	Culvert								
	Main Road Maruthi Hospital Road								
	side wall								
	Main Bars outer face (#12@100 c/c)	1	12	62	62	2.80	173.60	0.887814	154.12
	Main Bars inner face (#12@100 c/c)	1	12	62	62	2.40	148.80	0.887814	132.11
	Distribution								
	side walls(8#10)	4	10	10	40	0.80	32.00	0.616538	19.73
	bottom slab(8-#10)	2	10	10	20	1.20	24.00	0.616538	14.80
	Sarswathi Nilaya Road								
	side wall								
	Main Bars outer face (#12@100 c/c)	1	12	62	62	2.80	173.60	0.887814	154.12
	Main Bars inner face (#12@100 c/c)	1	12	62	62	2.40	148.80	0.887814	132.11
	Distribution								
	side walls(8#10)	4	10	10	40	0.80	32.00	0.616538	19.73
	bottom slab(8-#10)	2	10	10	20	1.20	24.00	0.616538	14.80
								TOTAL QTY IN KG'S	**13294.08**
								TOTAL QTY IN TONNE	**13.29**

CGFC

CIVIL Pro Sig Date BANGALORE

Contractor

PMC

12-12-19

Assistant Engineer

12-12-19

Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.10		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. As per the direction of Engineer incharge							
Measurements Taken On :									
		Paralell to Swd Drain							
0	24.2		Cum	1	24.20	5.03	0.30	36.52	
0	17.5		Cum	1	17.50	6.20	0.30	32.55	
17.5	19.5		Cum	1	2.00	6.80	0.30	4.08	
		Sarswathi Nilaya Road							
0	16		Cum	1	16.00	4.70	0.30	22.56	
0	30		Cum	1	30.00	5.93	0.30	53.33	
30	35		Cum	1	5.00	5.85	0.30	8.78	
		Lakshmikantamma house Road (Main Road to Swd Drain)							
0	19.4		Cum	1	19.40	5.00	0.30	29.10	
0	18.55		Cum	1	18.55	5.80	0.30	32.28	
		Cross Raod (Gundu Muneshwara house)							
0	28		Cum	1	28.00	4.15	0.30	34.86	

CIVIL Pro Sig Date BANGALORE

Contactor PMC Assistant Engineer 14-12-19 Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
		Cross Road							
0	15		Cum	1	15.00	5.20	0.30	23.40	
15	30		Cum	1	15.00	4.95	0.30	22.28	
30	45		Cum	1	15.00	4.20	0.30	18.90	
45	60		Cum	1	15.00	3.90	0.30	17.55	
60	75		Cum	1	15.00	4.15	0.30	18.68	CVFC
75	81.8		Cum	1	6.80	4.20	0.30	8.57	
							TOTAL	363.41	

CIVIL Pro Sig Date BANGALORE

14-12-19

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.11		Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. As per the direction of Engineer incharge							
Measurements Taken On :									
		Cross Road							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	45		Cum	1	15.00	1.30	0.15	2.93	
45	60		Cum	1	15.00	1.20	0.15	2.70	
60	75		Cum	1	15.00	1.25	0.15	2.81	
75	81.8		Cum	1	6.80	1.25	0.15	1.28	C&FC
							TOTAL	15.11	

CIVIL Pro Sig Date BANGALORE

14-12-19

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
Item no.12		Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications As per the direction of Engineer incharge							
Measurements Taken On :									
		Paralell to Swd Drain							
0	24.2		Cum	1	24.20	1.00	0.15	3.63	
0	17.5		Cum	1	17.50	1.00	0.15	2.63	
17.5	19.5		Cum	1	2.00	1.00	0.15	0.30	
		Sarswathi Nilaya Road							
0	16		Cum	1	16.00	1.00	0.15	2.40	
0	30		Cum	1	30.00	1.00	0.15	4.50	
30	35		Cum	1	5.00	1.00	0.15	0.75	
		Lakshmikantamma house Road (Main Road to Swd Drain)							
0	19.4		Cum	1	19.40	1.00	0.15	2.91	
0	18.55		Cum	1	18.55	1.00	0.15	2.78	
		Cross Raod (Gundu Muneshwara house)							

CIVIL Pro Sig Date BANGALORE

18-12-19

18-12-19

Contactor PMC Assistant Engineer Assistant Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK :Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

PRE MEASUREMENT SHEET

FIRST AND FINAL BILL

Chainage in m		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
0	28		Cum	1	28.00	1.10	0.15	4.62	
		Cross Road							
0	15		Cum	1	15.00	1.40	0.15	3.15	
15	30		Cum	1	15.00	1.50	0.15	3.38	
30	45		Cum	1	15.00	1.60	0.15	3.60	
45	60		Cum	1	15.00	1.40	0.15	3.15	
60	75		Cum	1	15.00	1.50	0.15	3.38	
75	81.8		Cum	1	6.80	1.50	0.15	1.53	
							TOTAL	42.70	

CIVIL Pro Sig. Date BANGALORE

Contactor PMC Assistant Engineer Assistant Executive Engineer

MANAGEMENT SURVEYING SERVICES